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Adaptive Fuzzy Neural Trees (1995) (Make Corrections) (1 citation)

Alois P. Heinz

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Abstract: We propose Adaptive Fuzzy Neural Trees as an appropriate tool for intelligent data analysis, comprehension, and prediction. Instead of using a single technique Adaptive Fuzzy Neural Trees as a mixture of paradigms combine the main advantages of neural networks, decision trees, and fuzzy logic. Like neural networks they are able to model smooth functions and can be adapted incrementally. Like decision trees their topology and initial parameters can easily be derived from a training data set by... [\(Update\)](#)

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...in general. **An interesting advantage of this restriction is that the resulting network can be interpreted as a fuzzy logic expert system [9].** If all decision radii are restricted to be zero the network can be regarded as an oblique decision tree. The fastest convergence however...

Cited by: [More](#)On a Class of Constructible Neural Networks - Heinz (1995) [\(Correct\)](#)Active bibliography (related documents): [More](#) [All](#)0.7: Ntree: Tools for Neural Trees - Heinz, Hense [\(Correct\)](#)0.2: Pipelined Neural Tree Learning by Error Forward-Propagation - Heinz (1995) [\(Correct\)](#)0.0: Advanced Supervised Learning in Multi-layer Perceptrons - From.. - Riedmiller (1994) [\(Correct\)](#)Similar documents based on text: [More](#) [All](#)0.1: Tree-Structured Neural Networks: Efficient Evaluation of.. - Heinz (2000) [\(Correct\)](#)0.1: A Tree-Structured Neural Network for Real-Time Adaptive Control - Heinz (1996) [\(Correct\)](#)0.1: Efficient Top-Down Jacobian Evaluation of Tree-Structured Neural.. - Heinz (1998) [\(Correct\)](#)BibTeX entry: [\(Update\)](#)

A. P. Heinz. Adaptive fuzzy neural trees. In G. E. Lasker and X. Liu, editors, Advances in Intelligent Data Analysis, Proceedings of the IDA-95 Symposium, volume I, pages 70--74, Baden-Baden, Germany, Aug. 1995. The International Institute for Advanced Studies in Systems Research and Cybernetics. (ISBN 0-921836-29-5). <http://citeseer.ist.psu.edu/heinz95adaptive.html> [More](#)

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@misc{ heinz95adaptive,
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  title = "Adaptive fuzzy neural trees",
  text = "A. P. Heinz. Adaptive fuzzy neural trees. In G. E. Lasker and X. Liu, editors,
    Advances in Intelligent Data Analysis, Proceedings of the IDA-95 Symposium,
    volume I, pages 70--74, Baden-Baden, Germany, Aug. 1995. The International
    Institute for Advanced Studies in Systems Research and Cybernetics. (ISBN
    0-921836-29-5).",
  year = "1995",
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- 1468 Learning internal representations by error propagation (context) - Rumelhart, Hinton et al. - 1986
- 1170 Classification and Regression Trees (context) - Breiman, Friedman et al. - 1984
- 132 An empirical study of learning speed in back-propagation net.. - Fahlman - 1988
- 118 An Introduction to Fuzzy Control (context) - Driankov, Hellendoorn et al. - 1993
- 74 Learning to tell two spirals apart (context) - Lang, Witbrock - 1988
- 4 Fast bounded smooth regression with lazy neural trees - Heinz - 1994
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- 1 Albert-Ludwigs-Universitat (context) - Heinz, Hense et al. - 1995

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